

Title (en)

Coated gas turbine engine compressor components.

Title (de)

Beschichtete Teile eines Gasturbinenverdichters.

Title (fr)

Composants revêtus d'un compresseur pour moteur de turbine à gaz.

Publication

EP 0323388 A2 19890705 (EN)

Application

EP 88630214 A 19881201

Priority

US 13785287 A 19871224

Abstract (en)

Coated gas turbine engine hardware is described. The hardware comprises a titanium alloy substrate having a coating thereon consisting essentially of titanium nitride wherein the ratio of nitrogen to titanium is greater than one. Such coatings have a residual compressive stress state which aids in minimizing the fatigue debit which would otherwise result from the use of a hard coating on a titanium substrate. Coatings are applied by the use of a vacuum arc deposition process.

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CPC (source: EP KR US)

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Cited by

EP3061844A1; EP0764267A4; EP2631323A1; US9404172B2; US7744986B2; WO9714032A1; US10557194B2; US11613805B2

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